

## Alphacool Eisbaer Aurora HPE Edition 360 CPU AIO

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### Quick Info

The Eisbaer Aurora HPE Edition 360 CPU AIO water cooling features the extremely powerful NexXos HPE Performance all-copper radiator equipped with the high-throughput Aurora Rise 120mm fans. All of the components used come from the classic DIY water cooling range and are also used for the most part in the enterprise products for servers. The Eisbaer LT Aurora can be expanded with additional components thanks to the quick-release fastener. Alphacool's Eisbaer Aurora HPE Edition 360 CPU AIO is a high performance all-in-one water cooling system that is as easy to install as an AIO, but offers the performance of a pre-assembled and pre-filled custom loop.

- Full copper HPE Radiator
- Digital aRGB lighting on cooler & fans
- Expandable thanks to quick release coupling

## Compatibility

**AMD:** AM4 / AM5 / SP6 / sTRX4 / sWRX8 / TR4

**Intel:** LGA 1150 / LGA 1151 / LGA 1155 / LGA 1156 / LGA 1200 / LGA 1700 / LGA 1851 / LGA 2011 / LGA 2011-3 / LGA 2066

## Scope of delivery

|                                                                                 |                                  |
|---------------------------------------------------------------------------------|----------------------------------|
| 1x Alphacool Eisbaer Aurora HPE Edition 360 CPU AIO<br>(radiator, fan & cooler) | 12x M3x30 fan screws             |
| 1x Mounting set AMD                                                             | 1x Y-adaptor 4-Pin PWM           |
| 1x Mounting set Intel                                                           | 1x Digital RGB controller        |
| 1x Thermal compound                                                             | 1x 3-Pin JST to 3-Pin 5V adaptor |
| 12x M3x5 case mounting screws                                                   |                                  |

## Technical data radiator

|                                                |                              |
|------------------------------------------------|------------------------------|
| L x W x H                                      | 391,5 x 124 x 30mm (+/- 3%)  |
| Material cooling fins, pre-chambers & channels | copper                       |
| Material threads                               | brass                        |
| Material outer housing                         | stainless steel              |
| Threads                                        | 2x G1/4"                     |
| Possible fan size                              | 120mm                        |
| Possible fan assembly                          | 3x one-sided / 6x both-sided |
| Pressure tested                                | 0,8 Bar                      |
| Maximum working temperature                    | 60°C                         |
| Fin density                                    | 18 FPI                       |

## Technical data cooler with pump

|                                 |                                |
|---------------------------------|--------------------------------|
| L x W x H                       | 66 x 66 x 69mm                 |
| Material cooler bottom          | nickel plated copper           |
| Material cooler top & reservoir | nylon, acrylic                 |
| Threads                         | 2x G1/4" (+ 1x Fillport G1/4") |
| Pump type                       | DC-LT2                         |
| Pump speed                      | 2600 rpm (+/- 10%)             |
| Head of delivery                | 1 m                            |
| Maximum flow rate               | 72 L/h                         |
| Voltage                         | 6-13,5V DC                     |
| Power consumption               | 3,2W                           |
| Pressure tested                 | 0,8 Bar                        |
| Maximum working temperature     | 60°C                           |

## Technical data fans

|                             |                          |
|-----------------------------|--------------------------|
| L x W x H                   | 120 x 120 x 25mm         |
| Speed                       | 0-2500 rpm (+/- 10%)     |
| Bearing                     | Sleeve Bearing           |
| Connection                  | 4-Pin PWM                |
| Cable length                | 40cm                     |
| Voltage                     | 12V DC                   |
| Current consumption         | 0,65A (0,72 max)         |
| Static pressure             | 3,17 mm/H <sub>2</sub> O |
| Max. air flow               | 118,9 m <sup>3</sup> /h  |
| Noise                       | max. 31,5 dB(A)          |
| Number of digital aRGB LEDs | 20                       |

## Technical data liquid

|                      |                                        |
|----------------------|----------------------------------------|
| Color                | clear                                  |
| Ingredient 1         | distilled water (CAS-Nummer 7732-18-5) |
| Ingredient 2         | Glysantin (CAS-Nummer 1017-21-1)       |
| Working temperatures | 15C°/+90°C                             |

## Technical data quick-release coupling

|            |            |
|------------|------------|
| Dimensions | 95 x 27mm  |
| Material   | Nylon      |
| Tube size  | 12,7/7,6mm |
| Color      | black      |

## Technical data connectors

|                                  |                |
|----------------------------------|----------------|
| Dimensions (connection straight) | 24 x 18mm      |
| Quantity (connection straight)   | 2x             |
| Dimensions (connection 90°)      | 35 x 27 x 17mm |
| Quantity (connection 90°)        | 2x             |
| Tube size                        | 12,7/7,6mm     |
| Material                         | brass          |

## Technical data tube

|                             |                          |
|-----------------------------|--------------------------|
| Length                      | 40cm                     |
| Material                    | TPV (EPDM/PP)            |
| Tube size                   | 12,7/7,6mm               |
| Hardness grade              | 35 Shore-A to 50 Shore-D |
| Maximum working temperature | -50 to +155°C            |
| Color                       | black                    |

## Download links

|                   |                                                                                   |
|-------------------|-----------------------------------------------------------------------------------|
| Manual            | <a href="#">11999_Alphacool_Eisbaer_Aurora_HPE_Edition_360_CPU_AIO_Manual.pdf</a> |
| Safety data sheet | <a href="#">11999_Alphacool_Eisbaer_Aurora_HPE_Edition_360_CPU_AIO_SDS.pdf</a>    |
| Product pictures  | <a href="#">11999_Alphacool_Eisbaer_Aurora_HPE_Edition_360_CPU_AIO_pics.zip</a>   |

## Packaging dimensions per unit

|           |                    |
|-----------|--------------------|
| L x W x H | 435 x 255 x 145 mm |
| Weight    | 3371 g             |

## Other data

|              |               |
|--------------|---------------|
| Certificates | CE, FC, ROHS  |
| EAN          | 4250197119993 |
| Customs code | 84195080900   |
| Guarantee    | 3 years       |

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### **New HPE Radiator!**

The NexXos ST30 HPE Radiator uses the same materials as previous NexXos models, but takes it a step further technically. Due to the condensed internal structure, the number of water channels and copper fins could be increased. Thus, a larger volume of water is in direct contact with the cooling fins and the heat transfer is enormously improved. The higher number of fin rows and their shortening also makes much more efficient use of the cooling surface. Comparison tests with the conventional NexXos radiator have shown that a performance increase of 4.5K is possible when using the HPE radiator. At higher ambient temperatures and higher fan speeds, the performance gap with the normal NexXoS radiators even increases progressively, reaching a possible performance increase of up to 6K.

### **Radiator & Pump**

As with all Alphacool products, the radiator base is made of nickel-plated copper and is equipped with very fine cooling fins that are distributed over the entire base. A nozzle plate provides an accelerated flow over the cooling fins which increases the cooling performance. The water flow is optimized so that all areas of the cooler base are cooled evenly. The Eisbaer LT Aurora cooler uses the very compact and small DC-LT 2 pump. It provides enough power to add another component such as a GPU water cooler or another radiator to the circuit.

### **Fan**

The Alphacool Rise Aurora fan offers a wide control range as well as superior Digital aRGB LED lighting. The individually controllable 5V aRGB LEDs paired with the fan's special design create unique effects. The fan can be controlled from 0 to 2500 rpm via the 4-pin PWM connector. Additionally, it offers a Zero control, which allows the fan to be regulated down to 0 RPM and then starts at approximately 350 RPM. At 800 rpm, the fan is nearly silent, but still offers good airflow (118.9 m³/h) paired with high static pressure (3.17mm/H<sub>2</sub>O).

### **DIY connections and ES hoses**

The hose connections are from the normal DIY segment and therefore use a G1/4" thread. Thus, it is very easy to replace them. The black TPV hose comes, like the connectors, from the Alphacool ES series which is primarily installed in servers and workstations. The hose does not contain any plasticizers and, unlike classic PVC hoses, does not deform at high temperatures. The quick connector is not made of heavy brass, but of extremely light, durable and robust nylon. The quick disconnect is compatible with many other models in the Alphacool product line.

### **Full Digital aRGB Illumination**

The cooler pump assembly and fans are fully equipped with Digital RGB LEDs, also known as addressable RGB or aRGB. Extensive effects can be set with the included controller or a Digital RGB controller on the motherboard. For a nice visual effect, of course, the illuminated polar bear on the cooler pump unit. For easier control via a controller, the fans and also the pump can be connected in series as a daisy chain. This enables a neat wiring of the individual LED components.